

**North Dakota State University Math-in-CTE Project
Teacher Consent Form—CTE Teacher**

You are invited to participate as a CTE teacher in the Math-in-Career and Technical Education (CTE) research project. Please read this form and ask any questions you may have before agreeing to continue in the study.

Background Information:

The purpose of this study is to test whether high school students can learn mathematics in math enhanced CTE courses. This involves a new way of teaching math in the regular CTE curriculum.

Procedures:

If you agree to be in this study and you are selected to be in the experimental group, you will agree to do the following things:

Participate in the following videotaped professional development activities:

- Fall 2007, 3-day professional development session, 2-day professional development session.
- Spring 2008, 2 2-day professional development sessions
- Summer 2008, 1-day professional development session.

Carry out the following instructional responsibilities:

- Teach all of the math-enhanced lessons planned for the entire school year.
- Consult with your math teacher partner before teaching each of the math-enhanced lessons.
- Within one week after teaching each lesson, complete and submit a Post-Teaching Report form.
- For each math-enhanced lesson you teach, collect and submit one sample of one student's work related to Element 7: Formal Assessment.
- For each math-enhanced lesson you teach, collect and submit instructional artifacts you develop.

Cooperate in the following data collection activities:

- Complete questionnaires about your teaching experience and attitudes.
- Complete a pre- and post-test of your math ability
- Coordinate with your liaison to schedule testing dates at the beginning of the spring term (1-2 days) and near the end of the school year (1-2 days).
- Videotape at least two classroom lessons: preferably one during the fall term and one in the spring term.
- Participate in an interview or focus group at the end of the study.

If you agree to be in this study and you are selected to be in the control group, you will agree to do the following things:

- Teach your CTE class following your regular curriculum without any additions or changes as a result of your awareness of this study.
- Complete questionnaires about your teaching experience and attitudes.
- Complete a pre- and post-test of your math ability
- Coordinate with your liaison to schedule testing dates at the beginning of the spring term (1-2 days) and near the end of the school year (1-2 days).
- Participate in a post-study interview.

Risks and Benefits of Experimental Group:

This study will test if explicit mathematics instruction in CTE courses will increase students' understanding and performance on standardized tests. You will participate in professional development activities designed to increase your ability to teach mathematical concepts related to your CTE area. If the study procedures are successful, you will be a more effective teacher and your students will increase their understanding of mathematical concepts and their applications.

You will receive an honorarium of \$720 for participating in this study, and all travel, food, lodging, and substitute teacher costs associated with participating in the professional development workshops will be reimbursed.

Risks and Benefits of Control Group:

By serving as a control teacher and teaching your regular curriculum without alteration, you are making a critical contribution to the study. The performance of your students will provide us with comparison data against which we can assess the effects of math enhancement in CTE classes.

To compensate you for your participation, you will receive an honorarium of \$200. In addition, you will be offered the chance to receive the professional development training for enhancing your curriculum with mathematics in the summer of 2008.

Confidentiality:

The records of this study will be kept private. Professional development activities will be videotaped for the purpose of documentation of the study. Interviews and focus groups will be audiotaped and transcribed. As names and videotapes will be collected, the raw data will not be anonymous. Confidentiality, however, will be promised in any report or publication. We will keep your name and data, as well as those of your students, completely anonymous and confidential. In any sort of report we might publish, we will not include any information that will make it possible to identify a subject.

Voluntary Nature of the Study:

Participation in this study is completely voluntary. Your decision whether or not to participate will not affect your current or future relations with North Dakota State University. If you decide to participate, you are free to withdraw at any time, but your stipend will be pro-rated for the time that you did participate.

Contacts and Questions:

The researchers conducting this study are Assistant Professors at North Dakota State University. If you have questions, you may contact Dr. Brent Young at brent.young@ndsu.edu; phone: (701) 231-7439 or Dr. Mari Borr at mari.borr@ndsu.edu; phone: (701) 231-7968. If you have any questions or concerns regarding the rights of research participants or to report a problem, contact the NDSU IRB at ndsu.irb@ndsu.edu; phone: (701) 231-8908.

Please make and keep a copy of this form to keep for your records.

Statement of Consent:

I have read the above information. I have asked questions and have received answers. I consent to participate in the study.

Printed name

Signature

Date _____